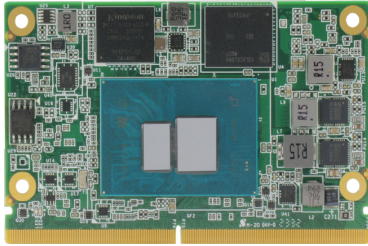


uCOM-ADN

SMARC Module with Intel Atom® Processor X Series, Intel® Processor N-series, & Intel® Core™ i3-N305 Processor

COM Express CPU Modules



Features

- LPDDR5x x 1, up to 8GB
- eMMC, up to 64GB
- DP++ x 2, eDP x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 6
- PCIe Gen 3 [x1] x 3, max 1x PCIe[x2]
- Intel® Ethernet Controller I226-V/IT x 2
- 5V input
- SMARC Module size 82mm x 50mm



Specifications

System	
Form Factor	SMARC Module
CPU	Intel® Core™ i3-N305 Processor (8C/8T, up to 3.8 GHz, 15W) Intel Atom® x7425E Processor (4C, up to 3.4 GHz, 12W) Intel® Processor N97 (4C, up to 3.6 GHz, 12W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR5x 4800MHz, up to 8GB
Onboard Storage	eMMC, up to 64GB
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.23" x 1.97" (82mm x 50mm)
Security	TPM 2.0
Power	
Power Requirement	+5V for ATX / AT
Power Type	AT (default)/ATX, switch by BIOS
Power Consumption (Typical)	Intel® Core™ i3-N305, 4.23A @+5V
Display	
Graphics Controller	Intel® UHD Graphics
Video Output	Display: DP++ x 2, up to 3840 x 2160 eDP x 1, up to 3840 x 2160
I/O	
Ethernet	Intel® Ethernet Controller I226-V/IT 2.5GbE x 2
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 6, USB 3.2 x 2
Serial Port	2-Wire UART x 2 (Tx/Rx) 4-Wire UART x 2 (Tx/Rx/CTS)
HDD Interface	SATA 6Gb/s x 1
Expansion	PCIe Gen 3 [x1] x 3 (Max PCIe [x2] x 1) MIPI CSI x 2 Note: To get a fourth PCIe Gen 3 [x1] interface, please contact the AAEON support team.
GPIO	7-bit (up to 14-bit by customization)
SMBus/I2C	GP_I2C x 1 SMBus x 1

Environment	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C) -40°F ~ 185°F (-40°C ~ 85°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
EMC	CE/FCC Class A
OS Support	Windows® 10 (64-bit) / Windows 11(enterprise) Linux Ubuntu 22.04.2/Kernel 5.19
Weight	0.14 lb. (0.06Kg)

Packing List

- uCOM-ADN

Optional Accessories

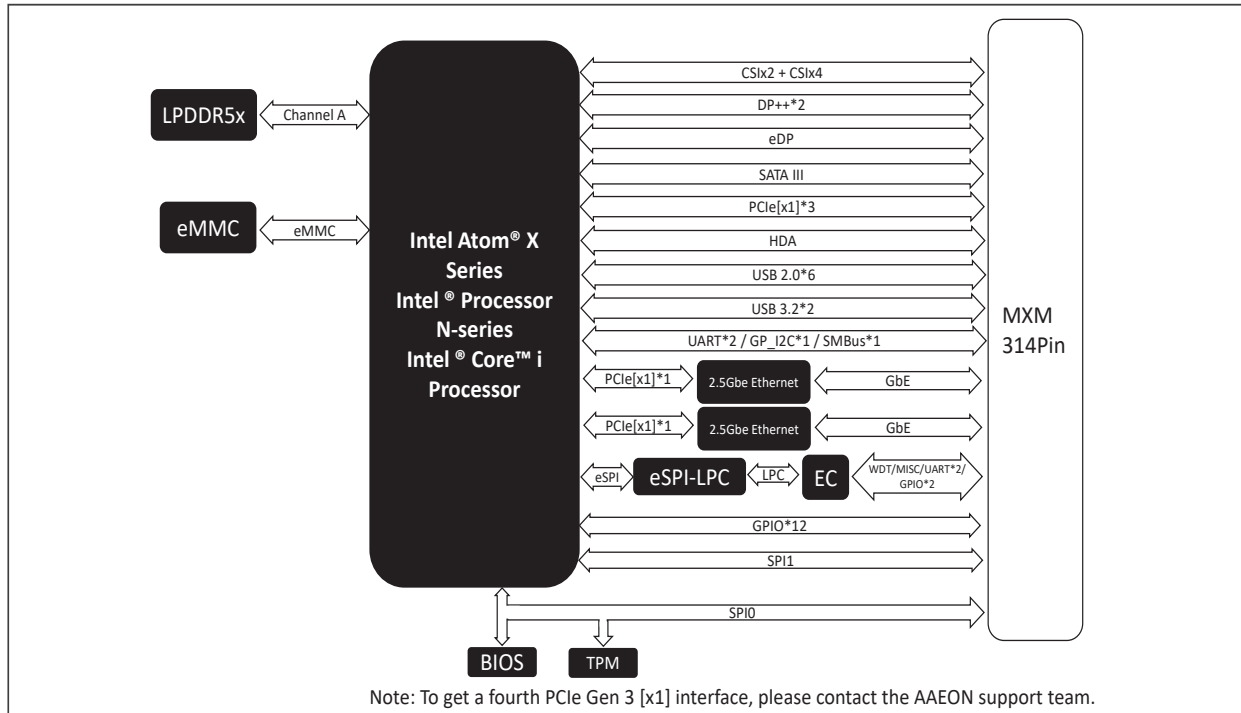
Part Number	Description
uCOM-ADN-FAN01	Cooler.82*42*16mm.4pin

uCOM-ADN

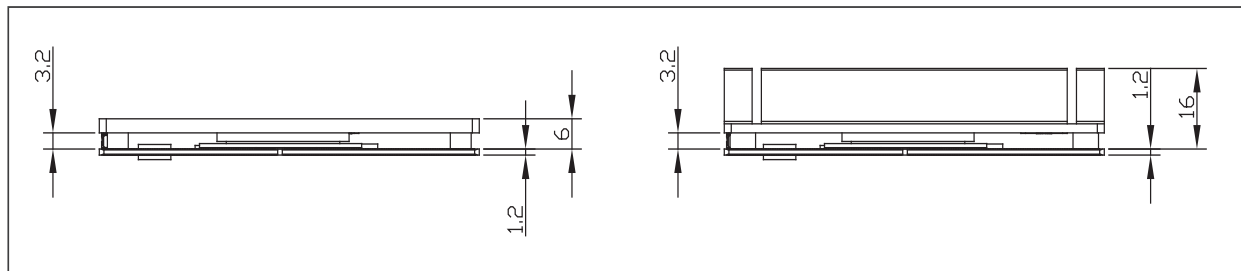
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COM Express CPU Modules

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Part Number	Form Factor	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
uCOM-ADN-B10-0001	SMARC	Intel Core™ Processor i3-N305	8GB LPDDR5x	—	eDP x 1 DP++ x 2	64GB eMMC	Intel® Ethernet Controller I226-V x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-20°C ~ 70°C	LPC, GPIO 7-bit, I2C, SMBus
uCOM-ADN-B10-0002	SMARC	Intel® Processor N97	8GB LPDDR5x	—	eDP x 1 DP++ x 2	32GB eMMC	Intel® Ethernet Controller I226-V x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-20°C ~ 70°C	LPC, GPIO 7-bit, I2C, SMBus
uCOM-ADN-B10-0003	SMARC	Intel Atom® Processor x7425E	8GB LPDDR5x	—	eDP x 1 DP++ x 2	64GB eMMC	Intel® Ethernet Controller I226-IT x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-40°C ~ 85°C	LPC, GPIO 7-bit, I2C, SMBus

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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